

FRESHMEN WIN AT LOWELL

Track Team Defeats High School Stars 39-38

The freshman track team defeated Lowell High school in an indoor meet at Lowell last Saturday night by the close score of 39 to 38. It was a case of nip and tuck all the way, the wearers of the Red and Gray winning the honors only after the most spirited kind of opposition had been overcome, for Lowell High usually has a crack team, and this year is no exception. In the 600 yard run Technology captured all three places. Poole coming in first, while in the running high jump Allen of Technology tied Mansur, who starred for Lowell, the height being 5ft. 9in. The freshmen were handicapped in the relay through the absence of Brokaw; also in the mile Arnold was missed owing to a slight illness. A big crowd turned out, and the Technology men were spurred on by a number of freshman track fans who accompanied the team. The Sophomore team meets Worcester Academy Saturday night. The summary of the Lowell meet is as follows:

Thirty-yard dash—Won by Kinley, Technology; Mansur, Lowell, second; Keith, Lowell, third. Time—4s.

One thousand-yard run—Won by Mullane, Lowell; Purcell, Technology, second; Sheldon, Lowell, third. Time—2m. 45 2-5s.

Running high jump—Mansur, Lowell, and Allen Technology tied at 5ft. 9in.; Saunders, Lowell, third.

Three hundred-yard run—Won by Mansur, Lowell; Keith, Lowell, second; Laird, Technology, third. Time—40 2-5s.

Thirty-five-yard hurdles—Won by McAdams, Lowell; Clark, Technology, second; Saunders, Lowell, third. Time—52-5s.

Six hundred-yard run—Won by Poole, Technology; Godfrey, Technology, second; McDonald, Technology, third. Time—1m. 34s.

Shot put—Won by Boli, Technology, 40ft. 7 1-2in.; Liecby, Technology, second; Tower, Technology, third.

Five mile run—Won by Purcell, Technology; Mullane, Lowell, second; Sheldon, Lowell, third. Time—5m. 15 1-5s.

Relay (1200 yards)—Won by Lowell. Time—2m. 49s.

ARRANGEMENTS FOR 1922 DINNER NEAR COMPLETION

The date of the freshman banquet has been changed to March 14, as the dormitory dance committee secured the use of Walker Memorial for the night of February 28, the date previously set for the banquet. The dinner committee, composed of F. N. Dillon, J. G. Davidson and H. Baker tried to make arrangements with the heads of the dormitory dance committee to postpone the date until the Saturday of that week, but were unsuccessful. The banquet could not have been held sooner as there would not be enough time to make all the necessary arrangements. The ticket committee is waiting for a report from the dinner committee as to how much the meal will be. As soon as this is determined the ticket committee will place the tickets on sale. The entertainment committee, composed of A. L. Johnson, W. C. Roberson and F. W. Walton, expect to exhibit some class talent. Among these will probably be D. Minton, who will play the piano and Walton, who will render violin selections. Besides these there will probably be a hired orchestra. The question of professional entertainers is being discussed, but no plans in this direction have been formulated as yet. The list of the committees not mentioned above is as follows: Executive committee, H. C. Gayley, W. Ferguson; Advisory committee, S. N. Biddell, E. N. May; Ticket committee, P. S. O'Brien, T. E. Shepard, E. W. Hamond, J. Barrows; Decoration committee, E. F. Bowditch, J. Cristoph.

Freshman candidates for positions as second assistant business managers of the Varsity tennis team and manager of the freshman tennis team should report to Room 2-290, Friday, February 14 at 5.

ALL STUDENTS ELIGIBLE TO COURSE IN FINANCE

The first of a series of lectures on undergraduate finance and organization will be given today at 5 in room 2-190 on "Dues To Undergraduate Activities" by Bursar Forc. The course is being conducted by the Alumni Advisory Council on Undergraduate Activities to enable men to better fill the positions of treasurer on the various activities. Since several of the activities handle many thousands of dollars during a year it was thought that men should learn to handle it in the right way.

The lectures, which will be open to all students at the Institute, will extend over six weeks and deal with the following subjects: Bookkeeping, Accounting, Auditing, Banking, Advertising, Circulation, Organization, Printing, Report Writing, Organization of the Undergraduate Association, The Institute Committee, The Budget Committee, The Finance Committee, and The Student Tax.

At the first lecture the men will be asked to decide on the hours when the lectures shall be given. At the completion of the course an examination will be given for those who wish to compete for treasurer on one of the activities. A treasurer of THE TECH will be elected May 1, 1919 and the successful candidate must have attended all the lectures and passed the course in Book-keeping and Accounting.

TECHNIQUE SIGNUP CAMPAIGN BEGINS

Subscription Terms To Remain
The Same as in Previous Years
—Rush Will Be Held in Great
Court May 29

LEATHER BOUND BOOKS GUARANTEED

Subscriptions for Technique 1920 will be taken from Monday, February 14th until Wednesday, March 5th. The subscription price and the terms will remain the same as of previous issues, that is, a deposit of \$7.50 must be made with the subscription and the balance of \$2.00 must be paid before the book can be delivered.

The Technique rush will take place at 1 o'clock on Thursday, May 29th in the Great Court. The general rules for the rush will be in order this year. Twenty books autographed by President R. C. Macharain, will be given out to those men who are fortunate in the rush and bring in the numbered slabs. The first four and the twentieth books are to be given free. No one will be allowed to compete however unless they have already subscribed to

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PROFESSOR LEWIS SPEAKS TO CHEMICAL SOCIETY TONIGHT

The Chemical society will hold its initial meeting tonight at 7.45 in the Dormitory Dining Room, Walker Memorial. President A. C. Atwater '20, who will preside at this gathering of future chemists, expects a large attendance. Professor Talbot will open the meeting with a short talk on the aims of the society, and its importance to a student in the chemical courses. He will be followed by Professor W. K. Lewis of the Department of Chemical Engineering at the Institute, who will lecture on "War Work."

During the war Professor Lewis was a tireless worker in the Gas Defense Division of the Chemical Service. In regard to this subject he will mention the development of the gas mask, to which he devoted so much time.

Membership in the Chemical Society is open to students of the upper classes in Courses V, X, XIV, XV-3. Although freshmen are not permitted to join the society they are invited to attend any open meetings.

An important meeting of all men connected with the News department of THE TECH including night editors and associate editors will be held in the old office of the paper at 75 Massachusetts Ave., Thursday, February 13, at 5.15. Readjustments in the staff will be made.

TECH SHOW SMOKER TO BE HELD FRIDAY

Author of 1919 Performance Will
Be Announced to Undergraduates—Competition for Cast and Chorus To Start Immediately

MORE MUSIC WANTED

The second Tech Show smoker will be held on Friday, February 14, at 7.30 in the Walker Memorial. This smoker, the managers say, will be for real business. The identity of the author of the play, which The Show has kept a secret will be announced. The name of the coach as well as the name of the piece will also be divulged. The principal characters of the show will be outlined in brief, just enough to give the fellows an idea of the parts; and right here the management wishes to say that they have great need of a comedian and a heroine—so that anyone who thinks that he can fill these parts should be at the smoker, without fail. Other announcements will be made, among these are the hours for the tri-weekly rehearsals; and the competition for the chorus. Announcements concerning the cuts in the various departments will also be made, besides the poster and the program cover design competition. The work of stage electrician and general workers cannot be assigned until the scenery is more definitely decided upon.

The first meeting of the music and lyric writers was held last Monday, twenty-four attending, and although the manager was gratified with the work already accomplished, he would like to have more music and lyrics handed in. Some member of the committee on music can be found every Monday in the Tech Show office in Walker Memorial, from 4 to 5. The manager, urges all men who have any interest whatever in the Show to come to the smoker. Several sketches will be given for the benefit of prospective candidates by old members of the cast.

SOPHOMORES MAKING PROGRESS IN MILITARY SCIENCE STUDIES

Taking Courses in Map Reading and Combat—Second Year Men Must Wear Uniforms

Sophomore classes in Military Science are now well under way in the various courses given in that department. The course in Map Reading given by Dean Burton is the same as that regularly prescribed for Courses I, IV, VI, and XV-1. Men who have had or are taking Map Reading as a part of their regular courses are receiving instruction in knot tying and splicing, under the supervision of Major Smith. This work, though a bit tedious at present is preliminary to bridge building and pioneer work which promises to be exceedingly interesting.

The third hour of the prescribed three is being devoted to the study of minor combat. Major Turner's lectures on this subject have consisted in problems on infantry and cavalry rattroning. They will include the study of reconnaissance, and various phases of combat in which the war game will later be used.

In connection with this work the attention of Sophomores is called to a bulletin recently issued by the Department of Military Science as follows: "War Department orders require that for all work in Military Department uniforms shall be worn. From now on this regulation will be obeyed and members of the Naval Reserve will conform to the same rule."

NAVAL DANCE COMES SATURDAY

Attention is called by the management to a misunderstanding concerning the Naval Unit Dance to be held in Walker Memorial, February 15. It has been the opinion of many that the dance is only for former members of the Naval Unit and that it is to be a formal affair. This is not the case. The dance is open to the first 150 students, who make application for tickets. The well-known Hotel Brunswick orchestra is to furnish the music. Refreshments will be served and attractive programs are to be issued. The tickets of which only a few remain are one dollar a couple and are on sale at the Walker Memorial, at the Co-operative society store, and in the main lobby between 12 and 2 daily. Tickets will not be sold after Friday.

REGISTRATION PHOTOGRAPHS MUST BE IN SATURDAY

Students are warned that they have only until Saturday noon, February 15, in which to have their pictures taken to complete their registration. Mr. Riley will be in Room 3-115 all day for the purpose of taking these pictures and those who have not done so should see him at once.

BULLETIN

According to Institute Regulations previous service is not a sufficient excuse for exemption from military work, neither is being over twenty-one years of age. The Faculty regulations state that men considerably over age may be excused, but this would have to be decided by the Faculty on petition and cannot be decided by the student acting himself. Physical disability is also a ground for excuse. This is not self acting, but must be granted on petition accompanied by certificate of the Institute physician.

Excuses based on other reasons will only be granted on petition showing that the applicant has left college to enter the United States service, has had considerable service during the war and is pursuing more than a normal schedule on account of such service. They must state full facts as to age, time in service, kind of service and rank, as well as total military training of all kinds; also the time out of college and the excess of present schedule over normal schedule.

No petition will be considered after this week except for men entering late when they must be submitted within ten days of re-enlistment.

All men not formally excused and not attending all scheduled military work, will be required to make up all time lost, or will be given deficient marks which will be a bar to graduation.

(Signed) EDWIN T. COLE,
Colonel, U. S. Army, Ret.,
Professor of Military Science.

ELECTRICALS WILL VISIT EDISON PLANT

Final arrangements have been made for the second trip of the Technology branch of the American Institute of Electrical Engineers. This excursion will have for its objective the Edison plant of the Boston Light and Power company. This plant which is situated on L street is the largest and most important of the main power stations which supply Boston and the vicinity with electric light, heat, and power. All parts of the plant will be opened to the students who go on the trip, and the officers of the society are confident that this affair will be even more extensively participated in than the Lynn trip.

Owing to more or less confusion which was experienced on the last trip, guides will be assigned to every 10 visitors for next Friday's excursion. In this manner it is expected that every one of the party will get his share of information with the least amount of trouble. In order to inform the company how many guides will be needed it is stated that all names must be in by Thursday at 2. The party will leave the society's office (Room 10-203) at 1.15 on Friday and all members who have signed up are requested to be there at that time.

VARSITY NATATORS DEFEAT BROWN 30-23

Meet Staged In Providence, R.I.
Shows Technology Swimmers
To Be in Good Form—Fish
Stars in 220 and 100

RELAY GOES TO BROWN

The varsity swimmers defeated Brown Saturday night at the Colgate-Hoyt pool at Providence, R. I., by a score of 30-23. The general showing of the team, especially in the dashes and



H. C. FISH '22

plunge augurs well for another unbeaten team this year. After the relay and dives Brown was leading 16-1. The team got going in the 50 and from then on was never headed off, taking first and second in every event except the 400 yard, in which they took first and third. The meet was not clinched, however, until the last heat of the last event.

It was in the second heat of the 100 that H. C. Fish '22 made sure that Technology's three-year string of victories would not be broken. After having won the gruelling 220, beating his man by more than 20 yards, Fish came back to oppose Hoving, one of Brown's fastest men. Hoving started out at a terrific pace hoping to kill Fish off at the beginning. Fish was not to be denied, however, and he stayed within a yard of his man. Going into the last 25 yards the Brown man was leading. Fish took one look, buried his nose in the water and put every ounce of energy into his stroke. With almost super-human effort he gradually forged ahead, winning by an arms length,

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CALENDAR

Wednesday, February 12.
Class of 1921 picture at 1.05 on Walker Memorial steps.

Lecture at 5 in Room 2-190 on "Dues To Undergraduate Activities."

Meeting of Chemical society at 7.45 in Dormitory Dining Room, Walker Memorial.

Thursday, February 13.
News meeting of THE TECH at 5.15 in office at 75 Mass. Ave.

Meeting of M. I. T. A. A. at 1 in Notman's studio, Harvard Square, for picture.

Friday, February 14.
Meeting of Mining Engineering society in Room 8-205.

M. I. T. Orchestra rehearsal at 5 in Walker Memorial.

Meeting of candidates for manager freshman tennis team at 5 in Room 2-290.

Tech Show Smoker at 7.45 in Dormitory Dining Room, Walker Memorial.

Saturday, February 15.
Naval Unit Dance at 8 in Walker Memorial.

The Tech

Established 1881

Published twice a week throughout the year by the students of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Entered as second-class matter, September 16, 1911, at the Post Office at Boston, Mass., under the act of Congress of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized on July 19, 1918.

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Alumni Notes

The Alumni Editor regrets to announce that the picture of Major H. N. Williams '92, which was run in Saturday's issue of THE TECH was incorrectly headed. Major Williams, who went over to France in August, 1917,



MAJOR H. N. WILLIAMS '92

has been connected with the Transportation Service as Division Superintendent and Commanding Officer of the 64th Engineers and 53rd R. T. C. Since December, 1918 he has been a member of the Inter-allied Railway Commission in full charge of all German railways on the American front.

Professor Sedgwick, head of the Biology department, has just received the following letter from MISS CLARA McWHIRK, a student in Course VII who is now doing bacteriological work in France.

Paris, Jan. 21st, 1919.

Dear Professor Sedgwick:—

"The further I go into Bacteriology the more I realize the greatness and benefit derived from my year and a half at the M. I. T. and it will be the one regret of my life that I did not stay to get a Degree from that wonderful world-famous Institution."

"Two weeks ago the Commanding Officer of the Bureau of Medical Research and Intelligence, with which I am connected, recalled me from the Rockefeller Commission, and the result is I am to leave the first of next week as Bacteriologist for the Red Cross Commission to Palestine. Needless to say the work to be undertaken there will be most important and I am proud to be associated with it. Col. Finley (late President of the College of the City of New York) has charge of the Commission.

"We are to go to Palestine by the way of Italy and Egypt, stopping in Rome and Port Said. A regular American hospital with fifty-five beds is now in full operation in Jerusalem, the Holy City. It is being conducted by the Red Cross Commission to Palestine, and besides the hospital the Red Cross has established a thoroughly equipped laboratory, and dispensary, a children's hospital and clinic, and workrooms. More than 1600 women and girls of all races and conditions are turning out Red Cross garments, hospital supplies, and the like. The other day I sent out an order for \$50,000 worth of gauze and cheesecloth for use in Palestine.

S. M. Schmidt '11, a Course VII graduate, has already been for some time in Palestine as Sanitarian to Dr. Finley's Commission.

Lieutenant Donald D. Warner, '18, of the 96th Aero Squadron, U. S. A., who, before entering the service, lived at 173 Humphrey Street, Swampscott, and who is now a convalescent at United States General Hospital, Roxbury, was yesterday decorated with the Distinguished Service Cross. The presentation was made by Colonel Joseph T. Clarke, commanding the hospital, before some 700 persons, including reconstruction aids, nurses, and other attaches of the base hospital, who assembled on the lawn in front of the main building. Detachments of uniformed men formed on Parker Hill Ave., and marched to the front of the building, where they took up a position during the brief exercises.

Colonel Clarke read the following from the War Department: "While on a

Alumni personals, news of class and alumni associations, and other alumni activities will be gratefully received. The prompt arrival of such information will facilitate the work of the Associate Editor in making the department as timely and complete as possible.

bombing expedition with other planes of his squadron, First Lieutenant Donald D. Warner, 96th Aero Squadron, engaged in a running fight over hostile territory with a superior number of enemy battle planes from Friauxville to Lamorville, France. During the combat he was severely wounded, his right hip being shattered. In spite of his wounds he continued to operate his machine guns until the hostile formation had been shot down burning." Concluding the reading of the official recognition of the young aviators bravery, Colonel Clarke pinned the war cross on his breast. Warner has been in active service since the United States entered the war. He is now at the home of his parents, Mr. and Mrs. C. E. Warner, 175 Humphrey St., Swampscott, Massachusetts. He is able to be about on his crutches and hopes to return in time to the Institute and finish his course.

DORMITORY DOINGS

Two bowling leagues have been formed among the dormitories; one league will be composed of a varsity team from each, the five men making the highest scores will compose this team. The other league will consist of as many teams as can be gotten together. The cost will be twenty-five cents for three games.

The new dining service for men living in the dormitories is working out splendidly. About a hundred men take advantage of this arrangement. Often music is furnished by some of the fellows having ability along this line.

After the pool tables have been set up it is planned to hold a series of pool tournaments.

SPRING DRIVE STARTS

M. E. Society's Campaign for One Hundred Per Cent Membership Begins Tomorrow

Commencing tomorrow morning and lasting through Saturday, the Mechanical Engineering Society will conduct a "Spring Drive" in the form of a concentrated campaign for a one hundred percent membership of all Course II men in the Junior and Senior classes. The last three days of this week will be practically solely given over to this work so that the new members will be able immediately to take active part in the society's social and business meetings and so that they may go on the various trips planned to business concerns in this vicinity.

The society has been divided up into a number of groups each with a chairman at its head and a complete canvass of the men in Course II will be made by these committees.

TECHNICALITIES

By J. B. F.

THE NAVAL UNIT DANCE

To all you flat-footed danseurs; greetings. Here is another chance to trip the light fantastic and spend some of Dad's hard earned. Of course I need not tell you chaps that the Tech Navy has designed a dance that will occupy the delicious floor of the Walker on the auspicious evening of Saturday, February 14, 1919. But I do want to crimp one illusion, and that is, that one has to be a GOB to attend. That is all bunk, and in fact they want you other more classy guys to join the happy throng. You will add zest and zeal to the outfit as it were. So verily I urge you all to get a line on that woman out in Brookline or Chelsea or wherever she lives and persuade her that she wants to come and help you make old Terpsichore look sick. Now you don't stand to lose a thing by it; the Navy never made but one mistake in their life and that was when they established the Tech Naval Unit. Amongst those present at this joyous function will be some music. That's straight goods; they kind of thought it could be handy to dance by, so they acquired the Hotel Brunswick outfit. Also, at an opportune moment when no one happens to be dancing, refreshments will be served—in ordinary United States that means that eats will be handed out. Then too, it is all absitively informal and therefore typically Technological. There will be no more than seven score and ten couples, and methinks that that will make a deucedly elevah little party. Now all ye merry gansters, get out your soap and shoe brush and prepare for that dance. Heave to and lay on to the weather wing of the fascinating female in your collection and show em how you can beat to windward. Ti a studding sail to the martingale and gibe her weather room. So then, "shove off."

TRACK GOSSIP

Rollins smashed a record on the board track last Saturday when he covered 300 yds. in 33.4-5s.

Bawden, not wishing to let Rollins do a solo in record breaking, made it a duet by doing the 1000 in 2 min. 23 sec.

Spitz, Downey, Junod, and Bards all made very good times in the 200. Spitz at 34.1-5 and Downey at 34.4-5 would have set records themselves, had it not been for Rollins' stellar performance.

Capt. Pierce is getting a little outdoor practice these spring days. Allen, of the freshmen, took the wind out of Lowell's sails Saturday night by tying its star high jumper at 5ft. 9.1-2in. When in form Allen does better than this, but he has been sick for a week.

Coach Kanaly credits McDonald with adding the deciding points to Technology's score. By some clever running and brain work, McDonald cleared the way for Poole, and helped Geoffrey to get started, besides taking third honors himself. This was in the 600.

The freshmen made clean sweeps in the 600 and shot put, taking all places. Purcell scored most for Technology. The mile is his distance, and he captured first place. Bad luck forced him into second place in the 1000.

There will be a meeting of the Activities, Thursday at 5.10 in Room 10-275. Each activity is requested to bring information regarding the undergraduates interested or connected with, their activity, and the name of their authorized publicity manager. The meeting was postponed from Wednesday, so as not to conflict with the lecture to be given by Bursar Ford on "Dues To Undergraduate Activities."

Prof. Shimer Believes 'Psychic Emanations' Will Become Plain

That psychic emanations—sometimes termed spirit messages—like sound and light vibrations too delicate for the ear or the eye to apprehend, will be as possible of comprehension at some future date as will be the recognition of the now unknown sound and light regions, is the theory of Henry W. Shimer, professor of paleontology at the Institute and widely known as a leading man of science.

Prof. Shimer believes at some future date the psychical side of man will become plain to read just as it will then be a simple mechanical process to recognize the air and light vibrations which now are "too fine" for the human senses to catch. The process of arriving at the translation of all psychical phenomena, he thinks, will come through a further development of the sciences. That is, absolute proof will be at hand to verify every medium of understanding that is arrived at.

Evidently Hudson Maxim, the inventor of the Maxim silencer, a device for completely cutting off the noise of a gun or rifle, invented another novel device which made it possible by throwing an electric switch to cut out all sound from a given area around the machine.

This sound silencer was made on the principle of so raising the speed of the vibrations of sounds that were recognizable to the ear that they were lifted outside the range of hearing—that is, were pushed up into a region of sound that cannot be heard even by the most sensitive ear.

Prof. Shimer's theory is that of Mr. Maxim's reversed and worked with psychic vibrations instead of sound vibrations. In other words, the psychic emanations which are now so "high" or rarefied that they are above the apprehension of the human intelligence will be "brought down" within the range of everyone—or at least anyone who wishes to learn how to understand and comprehend them.

Further facts concerning this theory are now being worked out by Prof. Shimer. He began a volume upon the evolutionary theory discussions of which are based upon a hundred or more different phases of investigation in the field of paleontology.

MINING SOCIETY ELECTS OFFICERS

The Mining Engineering Society held a meeting last Friday in room 8-205 after a year and a half of inactivity. The following officers, whose term will extend to May, were elected: A. A. Brown '20, president; V. E. Stevenson '20, vice-president; G. P. Griffin '20, treasurer; C. A. Johnston '21, secretary. The purpose of this meeting was purely to elect officers, but there will be an important meeting held in room 8-205 on Friday to organize and outline plans for the rest of the year.

Subscription \$1.50 for 53 issues, in advance. Single copies three cents. Subscriptions within the Boston Postal District or outside the United States must be accompanied by postage at the rate of one cent a copy. Issues mailed to all other points without extra charge.

Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. THE TECH assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

Copy for Wednesday's issue of THE TECH must be in the hands of the night editor not later than Tuesday at noon, and for Saturday's issue not later than Friday at noon.

IN CHARGE OF THIS ISSUE

F. W. Adams Night Editor
H. D. Folinsbee, Jr., '22 Asst. Night Editor

WEDNESDAY, FEBRUARY 12, 1919

WHERE CAN THEY SMOKE?


BY a process of elimination covering a period of two and a half years, the Main Lobby has come to be the principle congregating place of the student body at Technology. And it is an established fact that where college men get together, they will smoke. At present, there is feeble attempt on foot to stop this smoking in the Institute buildings, the sole purpose of which is to keep the corridors and laboratories in a more presentable condition. But if some fitting receptacles were to be placed in the Main Lobby, this nuisance could be done away with and everybody would be much better satisfied.

LECTURES FOR ALL

AS was stated in Saturday's issue of THE TECH there is to be given a course of lectures on subjects pertaining to finance and organization. The course will include a general treatment of these subjects, but at the same time special emphasis will be laid upon the Technology Undergraduate Association and all other student activities. The first lecture will be given today in Room 2-190 by Bursar H. S. Ford on the subject, "Dues to the Undergraduate Association." A lecture will be given each week for six weeks, and the course will include Banking, Auditing, Accounting, Book-keeping, Advertising, Organization of the Undergraduate Association, and Report Writing.

The main purpose of the course is to give to treasurers and others interested in undergraduate activities that knowledge of subjects which is necessary for the proper prosecution of the activities. All students who are in any way connected with the financing or organization of any activity should certainly attend these lectures.

However, the course is open to all students at the Institute whether they hold an office or not. Moreover it is an opportunity which the student body should not neglect. There is an overwhelming ignorance among us as to even the simplest rudiments of accounting and banking. Everybody ought, indeed if he is to be successful, he must have a general understanding of financial matters. Opportunities for that kind of education at Technology are few. Now, however, there is a good one and we urge everyone to take advantage of the benefit which it offers.



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COSMOPOLITAN CLUB DANCES

The Cosmopolitan club of the Institute gave a novel dance in Walker Memorial Saturday, featuring clever Lithuanian entertainers. The affair opened with a piano solo followed by a mixed quartet, which sang Lithuanian melodies. After this performance the dancing started and continued till midnight. During the intermission Miss Euvonis gave an interesting exhibition of Lithuanian toe-dancing and refreshments were served. About one hundred couples participated in the dancing.

BANDSTAND GOES TO HINGHAM

The band stand and flag pole erected at the Institute for the Naval Aviators are to be sent to the naval station at Hingham. For the past two weeks about twenty sailors sent up from the training station, have been at work preparing the stand for shipping. When all is ready it will be rolled to the river where a coal barge waits to carry it to Hingham. The flag pole will be taken at the same time.

DURNAM '17 DESCRIBES
TANK CONSTRUCTION

Methods of Flame Throwing and Trench Bridging Explained to Mechanical Engineering Society At Smoker

PLAN TRIP TO WALTHAM

A. P. Dunham '17, a Course II graduate, gave a talk to the Mechanical Engineering society last Friday in the north dining room of Walker Memorial describing his experiences and observations while in the service. He also gave a detailed description of the construction and use of the tanks. One thing of interest was the manner in which tanks climbed over unusually wide trenches. A large bundle of logs is tied to the top of the tank, and when it comes to a large trench the bundle of logs is rolled off in such a manner as to fall lengthwise in the trench, giving the tank something on which to cross.

Professor Miller, head of the Mechanical Engineering department, introduced Dunham. Professor Miller himself has done a great deal of work on tank construction, a fire throwing tank having been built at the Institute under his supervision. This tank never got to the front, but some of the fire-throwing devices were sent abroad and used in France. This tank was steam driven, and steam into which was projected oil, was sprayed from a nozzle under high pressure throwing a flame about 175 yards, which is a greater distance than could be obtained by other methods. The field beside the athletic field surrounded by a high board fence, which has caused a good deal of curiosity about the Institute, was used for experimental purposes in connection with the flame-throwing machine.

H. C. Davidson '20 outlined the plans of the society and called on the heads

(Continued on page 4)

SWIMMERS DEFEAT BROWN

(Continued from page 1)

never in the last 20 yards taking his nose out of the water. He was unable however to get out of the water unassisted and had to recuperate for a minute before going to the locker room.

Biddell started the relay with a dash, handing Colton a lead of about two feet. Colton held the lead until the turn where he experienced a little difficulty in getting off quickly and lost the lead. Scranton, too, experienced the same difficulty and Untersee got off a yard and a half to the lead. He swam fast and hard but the lead was too great and he was nosed out by a couple of inches. The time was fast; 1m. 38.2-5s.

In the dives Bidell placed third. The work of the Brown men was good, especially in the optionals. In the first heat of the 50 Bidell led Peters, the Brown captain, from the start, winning easily. The second heat was a dead heat between Scranton and Lawton of Brown. The heat was re-swum at the close of the meet but the points were left as a tie for second and third, as the one point could not effect the final standing. Scranton won the match heat.

O'Daly plunged 61 feet on his first try and as none of the others could make that mark it was not necessary for him to make a second. Rogovin took third place with a plunge of 55 1-2 feet. Untersee won the first heat of the 100 handily, showing a stroke that was a marvel of smoothness and strength. C. D. Green took the second heat of the 220, winning by more than ten yards.

A summary of the events shows:
Relay—Won by Brown (Stearns, Hoving, Peters, Lawton); second, Technology (Bidell, Colton, Scranton, Untersee). Time 1 min. 48.2-5 seconds.

Dives—Won by Greene (Brown); second, Lawton (Brown); third, Bidell (Technology).

50-yard—Won by Bidell (Technology); second, tied between Scranton (Technology) and Lawton (Brown). Time 2:27 sec.

220-yard—Won by Fish (Technology); second, C. D. Greene (Technology); third, Johnstone (Brown). Time 2:2 min. 58 sec.

Plunge Won by O'Daly (Technology); second, Welch (Brown); third, Rogovin (Technology). Distance 61 feet.

100-yard—Won by Untersee (Technology); second, Fish (Technology); third, Hoving (Brown). Time—1 min. 32-5 sec.

Point Summary

	Relay	Diving	50 yard	220 yard	Plunge	100 yard
Brown	8	8	2	1	3	1
Technology	0	1	7	8	6	8

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TECHNIQUE "SIGNUPS" START

(Continued from page 1)

Technique and in case they win one of the free books, the deposit of \$.75 will be refunded. This rule will hold in the grinds and the statistics competitions also and only those who have subscribed to Technique 1920 will be considered.

The Technique board guarantees that they will use a leather binding. Although the contracts have not as yet been made for the binding, the board is assured that such a binding will be possible unless the subscriptions fall below 1500 copies. An effort will be made to canvass the entire undergraduate body for subscriptions and so far as is possible they will reach the alumni. The final contracts must be in to the printers by Saturday, March 8th so it will be necessary to draw a hard and fast rule that absolutely no subscriptions can be ordered after March 5th. The increased price of materials has made it imperative that no "extra" books be ordered since the exact cost of publishing this year's Technique will be about \$6.50 a book. This is largely carried by advertising and voluntary contributions.

Technique 1920 will contain about 150 more pages than previous editions, it will contain a section of informal photographs of the individual undergraduates, the regular sections devoted to faculty, organizations of the undergraduates, athletics, activities, a section containing all the various views of the finished Institute buildings, informal photographs of all the interesting events around the Institute and the portfolio of the members of the class of 1919 who have graduated since last June or will graduate before next June.

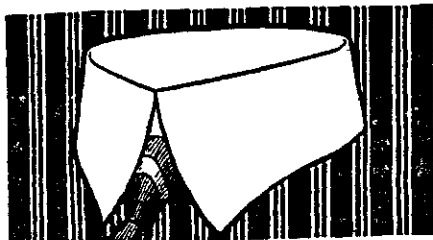
The photographic staff of Technique is already busy collecting and taking pictures of the class rooms, buildings, students etc. Regular trips around the buildings will be taken from time to time in order to make a complete collection of snap-shots. The board is placing no limit on the number of these which they will use, making the only requirement, that of quality.

The competitions now under way in the freshman and Sophomore class are to be decided in the near future and from the winners, the freshmen and Sophomore editors on the Technique 1920 board will be elected, and the business manager, treasurer and two associate business managers of Technique 1921 will be chosen. Those now in the competition are: T. W. Alder '22, W. R. Barker '21, H. C. Button '21, E. P. Clark '21, W. J. Croft '22, J. D. Crosby '21, W. Dean '21, E. W. Dittenhofer '22, H. C. Gayley '22, S. A. Gayley '22, W. J. Horlick '21, R. O. Inga's '22, W. H. Irwin '21, H. P. Junod '21, F. B. Kittridge '21, D. R. Linsley '21, L. Mandel '21, T. T. Miller '22, W. D. Morrison '21, E. A. Nussbaum '22, R. G. Pettin-gill '22, G. W. Potter '22, R. M. Raphael '21, and C. C. Westland '21. The original plans called for five men to be elected from each competition but this is subject to any change that the Board may see fit to make—that is it may increase this number to include any men who have made a very favorable showing or it may reduce the number.

M. E. SMOKE TALK

(Continued from page 3)

of the committees to speak. One of the plans of the society is to have a hundred per cent membership from the Junior and Sophomore classes. They also plan to have one meeting and one trip each month. The first trip will be a visit to the Waltham watch factory next Tuesday, Wednesday, Thursday, and Friday, no more than twenty men being taken on any one day. After the speeches, ice cream, apple pie and coffee were served rather than the conventional cider and doughnuts. There were about a hundred men present, and all were most enthusiastic over the suitability of the north dining room for such meetings as these.



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ADDITION TO LIST OF CITATIONS

Hall, Herbert W., '12. Capt. C. A. C. Cited for bravery, near Thiaucourt, Sept. 27, 1918.

Felton, Samuel M., '73. Dir. Gen. R. R. Recommended for D. S. C. and approved by Sec. Baker, Jan. 16, 1919. Blanchard, Harold '02. Major Infantry. Has received the Distinguished Service Cross.

ADDITIONS TO HONOR LIST

Mayers, Hadyn Potter '16. August, 1918. Killed in an engagement.

Prouty, Theodore R., '12. October 24, 1918. 2d Lt. Inf., A. E. F. Died of disease.

Root, George Welles, '19. December 25, 1918. A Co., 303d Bn., Heavy Tank Corps, A. E. F. Died in England of disease.

Webber, Leon Hubert '14 January 13, 1919. Lt. (j.g.) Naval Insp. of Ordnance, Birmingham, Ala. Died of pneumonia.

Schaffer, Harold '09. Oct. 29, 1919. Sapper, 1st Lt., 7th Canadian Engrs., A. E. F. Killed in action in France.

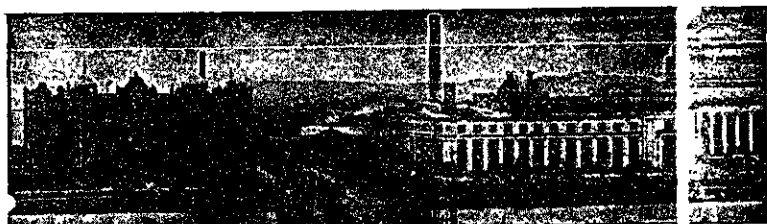
Arey, Reuben '13. December 23, 1918. Lt. (j.g.) U. S. S. Wenonah, Lost at sea between Portugal and the Azores.

Holmes, James Hill, Jr. '18. About July 20, 1918. Killed at Soissons, receiving machine gun bullet in the head.

PLATINUM PRODUCED IN ALASKA BRINGS HIGH PRICES

The production of platinum in Alaska shows that that metal is being produced in several widely separated regions. The first shipment of the metal out of that country was made in November, 1918, amounting to 133 oz., valued at \$13,557—more than \$100 per oz. Of this output, 105 oz. came from the Ketchikan district, 22 oz. from Seward Peninsula, and smaller amounts from Copper river region.

The domestic mine output of lead and zinc decreased in 1918, according to C. E. Siebenthal, in a statement just issued by the U. S. Geological Survey, Department of the Interior. The lead and the recoverable zinc of ores mined was approximately 563,000 tons and 627,000 tons, as compared with 651,156 tons and 711,192 tons in 1917. The lead available in the United States is 540,000 tons against 515,258 tons in 1917. The output of spelter from domestic and foreign ore was 525,600 tons, compared with 669,573 tons in 1917. Spelter from foreign ore decreased to 23,300 from 84,976 tons in 1917. The apparent domestic consumption of spelter was 440,000 tons, compared with 413,984 tons in 1917. The consumption figures of both lead and zinc include the metal shipped abroad for use of the American Expeditionary Forces. The average price of lead at New York was 7.6 cents a pound during 1918, and of spelter at St. Louis, 8 cents a pound.



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